

특허협력조약
(PATENT COOPERATION TREATY)

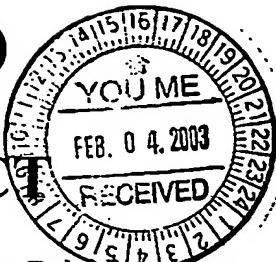
발신 : 국제조사기관

수신 :

YOU ME PATENT & LAW FIRM

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080 Seoul Republic of Korea

PCT

국제조사보고서 또는 국제조사보기
부작성 선언서 송부 통지서

(PCT 규칙 44.1)

발송일 (일/월/년)	30 JANUARY 2003 (30.01.2003)
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출원인 또는 대리인 서류참조기호 OPPO20600KR	이후의 절차에 대하여는 아래 1. 및 4. 참조
국제출원번호 PCT/KR02/01766	국제출원일 (일/월/년) 18 SEPTEMBER 2002 (18.09.2002)
출원인 SAMSUNG ELECTRONICS CO., LTD. et al	

1. 국제보고서가 작성되어 이를 송부함을 출원인에게 통지합니다.

조약 제19조의 규정에 의한 보정서 및 설명서의 제출:

희망하는 경우 출원인은 국제출원의 청구의 범위를 보정할 수 있습니다.(조약규칙 46):

기간 보정서 제출기간은 통상 국제조사보고서 송부일부터 2월.

제출처 The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland
Faxcimile No. : (41-22) 740 14 35

보다 자세한 지침에 대하여는 첨부되는 용지에 기재된 설명을 참조.

2. 국제조사보고서가 작성되지 아니할 것이며 조약 제17조(2)(a)의 규정에 의한 선언서가 송부됨을 출원인에게 통지합니다.

3. 조약규칙 40.2의 규정에 의한 추가수수료 납부에 대한 이의신청과 관련하여 아래 사항을 출원인에게 통지합니다.

이의신청 및 이의신청에 대한 결정 통지서를 출원인이 제출한 이의신청 및 이의신청에 대한 결정 통지서의 지정관청에의 송부 신청서와 함께 국제사무국에 송부하였습니다.

이의신청에 대한 결정이 아직 이루어지지 않았습니다; 결정이 이루어지는 대로 출원인에게 통지할 것입니다.

4. 주의사항

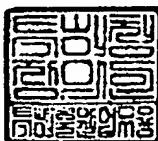
우선일부터 18월 직후 국제사무국은 국제출원을 공개합니다. 공개를 하지 않거나 또는 연기할 것을 희망하는 경우에는 출원인은 국제공개의 기술적 준비가 완료되기 전에 각각의 경우에 따라 조약 규칙 90bis.1 및 90bis.3의 규정에 의한 국제출원 취소 또는 우선권주장 취소를 국제사무국에 제출하여야 합니다.

일부 지정관청에 대하여는 출원인이 우선일부터 30월까지 (일부관청에 대하여는 더 늦을 수도 있음) 국내단계의 개시를 연기하고자 하는 경우에는 우선일부터 19월이내에 국제예비심사를 청구하여야 합니다; 그렇지 않은 경우 출원인은 우선일부터 20월 이내에 당해 지정관청에 대한 국내단계의 개시를 위한 규정된 절차를 밟아야 합니다.

다른 지정관청에 대하여는, 우선일부터 19월 이내에 국제예비심사를 청구하지 않더라도 30월(또는 더 늦을 수도 있음)의 기간이 적용될 것입니다.

서식 PCT/IB/301의 부속서류를 참조하기 바라며, 각 특허청마다의 적용기간에 대한 구체적인 사항은 PCT출원인 안내 제2권 국내단계 및 WIPO 인터넷 사이트를 참조하시기 바랍니다.

ISA/KR의 명칭 및 우편주소 대한민국 특허청 302-701 대한민국 대전광역시 서구 둔산동 920번지 정부대전청사 팩스 번호 82-42-472-7140	특허청장 전화번호 82-42-481-5208
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PENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference OPP020600KR	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/KR02/01766	International filing date (<i>day/month/year</i>) 18 SEPTEMBER 2002 (18.09.2002)	(Earliest) Priority Date (<i>day/month/year</i>) 02 AUGUST 2002 (02.08.2002)
Applicant SAMSUNG ELECTRONICS CO., LTD. et al		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

contained in the international application in written form.

filed together with the international application in computer readable form.

furnished subsequently to this Authority in written form.

furnished subsequently to this Authority in computer readable form.

the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. Certain claims were found unsearchable (See Box I).

3. Unity of invention is lacking (See Box II).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawing to be published with the abstract is Figure No. 3

as suggested by the applicant.

because the applicant failed to suggest a figure.

because this figure better characterizes the invention.

None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.

KR/KR02/01766

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 G02F 1/1333

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

KR, JP : as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PAJ " spacer ""liquid crystal""substrate""color filter""display"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,285,424 (Sumitomo Chemical Co., Ltd.) 04, September, 2001 see whole document	I-11
A	JP 01265231 (Seiko Epson Co.) 23, October, 1989 see whole document	I-11
Y	JP 03059522 (Hitachi Ltd.) 14, March, 1991 see claims	I-11

 Further documents are listed in the continuation of Box C. See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search 27 JANUARY 2003 (27.01.2003)	Date of mailing of the international search report 27 JANUARY 2003 (27.01.2003)
Name and mailing address of the ISA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer CHO, Kyoung Hwa Telephone No. 82-42-481-5767 

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR02/01766

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6,285,424	04 - 09 - 2001	US 6,128,057	03 - 10 - 2000
JP 01265231	23 - 10 - 1989	None	
JP 03059522	14 - 03 - 1991	None	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR02/01766

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 G02F 1/1333

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

KR, JP : as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PAJ " spacer""liquid crystal""substrate""color filter""display"

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Y	JP 03059522 (Hitachi Ltd.) 14, March, 1991 see claims	1-11

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See patent family annex.

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- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
27 JANUARY 2003 (27.01.2003)

Date of mailing of the international search report
27 JANUARY 2003 (27.01.2003)

Name and mailing address of the ISA/KR

**Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea**
Facsimile No. 82-42-472-7140

Authorized officer
CHO, Kyoung Hwa
Telephone No. 82-42-481-5767



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR02/01766

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6,285,424	04 - 09 - 2001	US 6,128,057	03 - 10 - 2000
JP 01265231	23 - 10 - 1989	None	
JP 03059522	14 - 03 - 1991	None	